

**ABSTRACT**

A method for performing diagnostics on a computer peripheral device at least includes: coupling a computer at least including a web browser to a backend server via a communication link; via a peripheral device coupled to the computer and at least including a web server, constructing and sending a peripheral device HTTP message to the web browser at least including peripheral device functionality information; via the web browser, forwarding the peripheral device HTTP message to the backend server; via the backend server, and in response to receiving the peripheral device HTTP message, constructing and transmitting a directive web page to the peripheral device requesting more information if more information is needed, or a constructing and transmitting a human readable web page to the web browser, indicating diagnostic results if more information is not needed; via the web server, automatically responding to a directive web page with a new peripheral device HTTP message at least including functionality information; and iteratively communicating between the backend server and the peripheral device is until a user communication point is reached, which communication point precedes transmitting the human readable web page.